

RAW SEQUENCE LISTING
PATENT APPLICATION US/08/430,035

AU 1812

DATE: 03/28/96

TIME: 11:48:15

INPUT SET: S9572.raw

This Raw Listing contains the General
Information Section and up to the first 5 pages.

SEQUENCE LISTING

(1) General Information:

(i) APPLICANT: Eaton, Dan L.
de Sauvage, Frederic J.

(ii) TITLE OF INVENTION: MPL LIGAND

(iii) NUMBER OF SEQUENCES: 21

(iv) CORRESPONDENCE ADDRESS:

(A) ADDRESSEE: Genentech, Inc.
(B) STREET: 460 Point San Bruno Blvd
(C) CITY: South San Francisco
(D) STATE: California
(E) COUNTRY: USA
(F) ZIP: 94080

(v) COMPUTER READABLE FORM:

(A) MEDIUM TYPE: 3.5 inch, 1.44 Mb floppy disk
(B) COMPUTER: IBM PC compatible
(C) OPERATING SYSTEM: PC-DOS/MS-DOS
(D) SOFTWARE: WinPatin (Genentech)

(vi) CURRENT APPLICATION DATA:

(A) APPLICATION NUMBER: 08/430035
(B) FILING DATE: 27-Apr-1995
(C) CLASSIFICATION:

(vii) PRIOR APPLICATION DATA:

(A) APPLICATION NUMBER: 08/196689
(B) FILING DATE: 15-FEB-1994

(vii) PRIOR APPLICATION DATA:

(A) APPLICATION NUMBER: 08/185607
(B) FILING DATE: 21-JAN-1994

(vii) PRIOR APPLICATION DATA:

(A) APPLICATION NUMBER: 08/176553
(B) FILING DATE: 03-JAN-1994

(viii) ATTORNEY/AGENT INFORMATION:

(A) NAME: Winter, Daryl B.
(B) REGISTRATION NUMBER: 32,637
(C) REFERENCE/DOCKET NUMBER: P0871P2D2

ENTERED

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RAW SEQUENCE LISTING
PATENT APPLICATION US/08/430,035DATE: 03/28/96
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INPUT SET: S9572.raw

47
48 (ix) TELECOMMUNICATION INFORMATION:
49 (A) TELEPHONE: 415/225-1249
50 (B) TELEFAX: 415/952-9881
51 (C) TELEX: 910/371-7168
52
53 (2) INFORMATION FOR SEQ ID NO:1:
54
55 (i) SEQUENCE CHARACTERISTICS:
56 (A) LENGTH: 42 amino acids
57 (B) TYPE: Amino Acid
58 (D) TOPOLOGY: Linear
59
60 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:
61
62 Leu Leu Leu Val Val Met Leu Leu Leu Thr Ala Arg Leu Thr Leu
63 -16 -15 -10 -5
64
65 Ser Ser Pro Ala Pro Pro Ala Cys Asp Leu Arg Val Leu Ser Lys
66 1 5 10
67
68 Leu Leu Arg Asp Ser His Val Leu His Ser Arg Leu
69 15 20 25 26
70
71 (2) INFORMATION FOR SEQ ID NO:2:
72
73 (i) SEQUENCE CHARACTERISTICS:
74 (A) LENGTH: 390 base pairs
75 (B) TYPE: Nucleic Acid
76 (C) STRANDEDNESS: Single
77 (D) TOPOLOGY: Linear
78
79 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:
80
81
82 GAATTCCTGG AATACCAGCT GACAATGATT TCCTCCTCAT CTTTCAACCT 50
83
84 CACCTCTCCT CATCTAAGAA TTG CTC CTC GTG GTC ATG CTT 91
85 Leu Leu Leu Val Val Met Leu
86 -16 -15 -10
87
88 CTC CTA ACT GCA AGG CTA ACG CTG TCC AGC CCG GCT CCT 130
89 Leu Leu Thr Ala Arg Leu Thr Leu Ser Ser Pro Ala Pro
90 -5 1
91
92 CCT GCT TGT GAC CTC CGA GTC CTC AGT AAA CTG CTT CGT 169
93 Pro Ala Cys Asp Leu Arg Val Leu Ser Lys Leu Leu Arg
94 5 10 15
95
96 GAC TCC CAT GTC CTT CAC AGC AGA CTG GTGA GAACTCCCAA 210
97 Asp Ser His Val Leu His Ser Arg Leu
98 20 25 26
99

RAW SEQUENCE LISTING
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100 CATTATCCCC TTTATCCGCG TAACTGGTAA GACACCCATA CTCCCAGGAA 260
101
102 GACACCATCA CTTCTCTAA CTCCTTGACC CAATGACTAT TCTTCCCAT 310
103
104 TTGTCCCCAC CTACTGATCA CACTCTCTGA CAAGAATTAT TCTTCACAAT 360
105
106 ACAGCCCGCA TTTAAAAGCT CTCGTCTAGA 390
107

108 (2) INFORMATION FOR SEQ ID NO:3:
109

110 (i) SEQUENCE CHARACTERISTICS:
111 (A) LENGTH: 390 base pairs
112 (B) TYPE: Nucleic Acid
113 (C) STRANDEDNESS: Single
114 (D) TOPOLOGY: Linear
115

116 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:
117

118
119 TCTAGACGAG AGCTTTTAAA TGCGGGCTGT ATTGTGAAGA ATAATTCTTG 50
120
121 TCAGAGAGTG TGATCAGTAG GTGGGGACAA TATGGGAAGA ATAGTCATTG 100
122
123 GGTCAAGGAG TTAGAGGAAG TGATGGTGTC TTCCTGGGAG TATGGGTGTC 150
124
125 TTACCAGTTA CGCGGATAAA GGGGATAATG TTGGGAGTTC TCACCAGTCT 200
126
127 GCTGTGAAGG ACATGGGAGT CACGAAGCAG TTTACTGAGG ACTCGGAGGT 250
128
129 CACAAGCAGG AGGAGCCGGG CTGGACAGCG TTAGCCTTGC AGTTAGGAGA 300
130
131 AGCATGACCA CGAGGAGCAA TTCTTAGATG AGGAGAGGTG AGGTTGAAAG 350
132
133 ATGAGGAGGA AATCATTTGTC AGCTGGTATT CCAGGAATTC 390
134

135 (2) INFORMATION FOR SEQ ID NO:4:
136

137 (i) SEQUENCE CHARACTERISTICS:
138 (A) LENGTH: 353 amino acids
139 (B) TYPE: Amino Acid
140 (D) TOPOLOGY: Linear
141

142 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:
143

144 Met Glu Leu Thr Glu Leu Leu Leu Val Val Met Leu Leu Leu Thr
145 -21 -20 -15 -10
146
147 Ala Arg Leu Thr Leu Ser Ser Pro Ala Pro Pro Ala Cys Asp Leu
148 -5 1 5
149
150 Arg Val Leu Ser Lys Leu Leu Arg Asp Ser His Val Leu His Ser
151 10 15 20
152

RAW SEQUENCE LISTING PATENT APPLICATION US/08/430,035

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| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 153 | Arg | Leu | Ser | Gln | Cys | Pro | Glu | Val | His | Pro | Leu | Pro | Thr | Pro | Val |
| 154 | 25 | | | | | 30 | | | | | 35 | | | | |
| 155 | | | | | | | | | | | | | | | |
| 156 | Leu | Leu | Pro | Ala | Val | Asp | Phe | Ser | Leu | Gly | Glu | Trp | Lys | Thr | Gln |
| 157 | 40 | | | | | 45 | | | | | 50 | | | | |
| 158 | | | | | | | | | | | | | | | |
| 159 | Met | Glu | Glu | Thr | Lys | Ala | Gln | Asp | Ile | Leu | Gly | Ala | Val | Thr | Leu |
| 160 | 55 | | | | | 60 | | | | | 65 | | | | |
| 161 | | | | | | | | | | | | | | | |
| 162 | Leu | Leu | Glu | Gly | Val | Met | Ala | Ala | Arg | Gly | Gln | Leu | Gly | Pro | Thr |
| 163 | 70 | | | | | 75 | | | | | 80 | | | | |
| 164 | | | | | | | | | | | | | | | |
| 165 | Cys | Leu | Ser | Ser | Leu | Leu | Gly | Gln | Leu | Ser | Gly | Gln | Val | Arg | Leu |
| 166 | 85 | | | | | 90 | | | | | 95 | | | | |
| 167 | | | | | | | | | | | | | | | |
| 168 | Leu | Leu | Gly | Ala | Leu | Gln | Ser | Leu | Leu | Gly | Thr | Gln | Leu | Pro | Pro |
| 169 | 100 | | | | | 105 | | | | | 110 | | | | |
| 170 | | | | | | | | | | | | | | | |
| 171 | Gln | Gly | Arg | Thr | Thr | Ala | His | Lys | Asp | Pro | Asn | Ala | Ile | Phe | Leu |
| 172 | 115 | | | | | 120 | | | | | 125 | | | | |
| 173 | | | | | | | | | | | | | | | |
| 174 | Ser | Phe | Gln | His | Leu | Leu | Arg | Gly | Lys | Val | Arg | Phe | Leu | Met | Leu |
| 175 | 130 | | | | | 135 | | | | | 140 | | | | |
| 176 | | | | | | | | | | | | | | | |
| 177 | Val | Gly | Gly | Ser | Thr | Leu | Cys | Val | Arg | Arg | Ala | Pro | Pro | Thr | Thr |
| 178 | 145 | | | | | 150 | | | | | 155 | | | | |
| 179 | | | | | | | | | | | | | | | |
| 180 | Ala | Val | Pro | Ser | Arg | Thr | Ser | Leu | Val | Leu | Thr | Leu | Asn | Glu | Leu |
| 181 | 160 | | | | | 165 | | | | | 170 | | | | |
| 182 | | | | | | | | | | | | | | | |
| 183 | Pro | Asn | Arg | Thr | Ser | Gly | Leu | Leu | Glu | Thr | Asn | Phe | Thr | Ala | Ser |
| 184 | 175 | | | | | 180 | | | | | 185 | | | | |
| 185 | | | | | | | | | | | | | | | |
| 186 | Ala | Arg | Thr | Thr | Gly | Ser | Gly | Leu | Leu | Lys | Trp | Gln | Gln | Gly | Phe |
| 187 | 190 | | | | | 195 | | | | | 200 | | | | |
| 188 | | | | | | | | | | | | | | | |
| 189 | Arg | Ala | Lys | Ile | Pro | Gly | Leu | Leu | Asn | Gln | Thr | Ser | Arg | Ser | Leu |
| 190 | 205 | | | | | 210 | | | | | 215 | | | | |
| 191 | | | | | | | | | | | | | | | |
| 192 | Asp | Gln | Ile | Pro | Gly | Tyr | Leu | Asn | Arg | Ile | His | Glu | Leu | Leu | Asn |
| 193 | 220 | | | | | 225 | | | | | 230 | | | | |
| 194 | | | | | | | | | | | | | | | |
| 195 | Gly | Thr | Arg | Gly | Leu | Phe | Pro | Gly | Pro | Ser | Arg | Arg | Thr | Leu | Gly |
| 196 | 235 | | | | | 240 | | | | | 245 | | | | |
| 197 | | | | | | | | | | | | | | | |
| 198 | Ala | Pro | Asp | Ile | Ser | Ser | Gly | Thr | Ser | Asp | Thr | Gly | Ser | Leu | Pro |
| 199 | 250 | | | | | 255 | | | | | 260 | | | | |
| 200 | | | | | | | | | | | | | | | |
| 201 | Pro | Asn | Leu | Gln | Pro | Gly | Tyr | Ser | Pro | Ser | Pro | Thr | His | Pro | Pro |
| 202 | 265 | | | | | 270 | | | | | 275 | | | | |
| 203 | | | | | | | | | | | | | | | |
| 204 | Thr | Gly | Gln | Tyr | Thr | Leu | Phe | Pro | Leu | Pro | Pro | Thr | Leu | Pro | Thr |
| 205 | 280 | | | | | 285 | | | | | 290 | | | | |

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206
207   Pro Val Val Gln Leu His Pro Leu Leu Pro Asp Pro Ser Ala Pro
208   295                               300                               305
209
210   Thr Pro Thr Pro Thr Ser Pro Leu Leu Asn Thr Ser Tyr Thr His
211   310                               315                               320
212
213   Ser Gln Asn Leu Ser Gln Glu Gly
214   325                               330                               332
215
216 (2) INFORMATION FOR SEQ ID NO:5:
217
218   (i) SEQUENCE CHARACTERISTICS:
219       (A) LENGTH: 1798 base pairs
220       (B) TYPE: Nucleic Acid
221       (C) STRANDEDNESS: Single
222       (D) TOPOLOGY: Linear
223
224   (xi) SEQUENCE DESCRIPTION: SEQ ID NO:5:
225
226
227   GCGTCTTCCT ACCCATCTGC TCCCCAGAGG GCTGCCTGCT GTGCACTTGG 50
228
229   GTCCTGGAGC CCTTCTCCAC CCGGATAGAT TCCTCACCCT TGGCCCGCCT 100
230
231   TTGCCCCACC CTACTCTGCC CAGAAGTGCA AGAGCCTAAG CCGCCTCCAT 150
232
233   GGCCCCAGGA AGGATTCAGG GGAGAGGCC CAAACAGGGA GCCACGCCAG 200
234
235   CCAGACACCC CGGCCAGA ATG GAG CTG ACT GAA TTG CTC CTC 242
236                               Met Glu Leu Thr Glu Leu Leu Leu
237                               -21 -20                               -15
238
239   GTG GTC ATG CTT CTC CTA ACT GCA AGG CTA ACG CTG TCC 281
240   Val Val Met Leu Leu Leu Thr Ala Arg Leu Thr Leu Ser
241                               -10                               -5
242
243   AGC CCG GCT CCT CCT GCT TGT GAC CTC CGA GTC CTC AGT 320
244   Ser Pro Ala Pro Pro Ala Cys Asp Leu Arg Val Leu Ser
245       1                               5                               10
246
247   AAA CTG CTT CGT GAC TCC CAT GTC CTT CAC AGC AGA CTG 359
248   Lys Leu Leu Arg Asp Ser His Val Leu His Ser Arg Leu
249       15                               20                               25
250
251   AGC CAG TGC CCA GAG GTT CAC CCT TTG CCT ACA CCT GTC 398
252   Ser Gln Cys Pro Glu Val His Pro Leu Pro Thr Pro Val
253                               30                               35
254
255   CTG CTG CCT GCT GTG GAC TTT AGC TTG GGA GAA TGG AAA 437
256   Leu Leu Pro Ala Val Asp Phe Ser Leu Gly Glu Trp Lys
257       40                               45                               50
258

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